

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number:

Source:

Date Processed by STIC:

10/520,052  
PCT  
2/21/06

# ***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 02/21/2006

PATENT APPLICATION: US/10/520,052

TIME: 12:28:21

Input Set : A:\00360899.TXT

Output Set: N:\CRF4\02212006\J520052.raw

3 <110> APPLICANT: Lobley, Anna Elizabeth  
 4 Michalovich, David  
 5 Stancovski, Ilana  
 6 Allen, Kathryn Elizabeth  
 7 Allen, Janet Marjorie  
 8 Osypenko, Vadym Nikolaevich  
 9 Gurney, Alison Marion  
 11 <120> TITLE OF INVENTION: SEROTONIN RECEPTOR  
 13 <130> FILE REFERENCE: 04270/0202281-US0  
 15 <140> CURRENT APPLICATION NUMBER: 10/520,052  
 C--> 16 <141> CURRENT FILING DATE: 2004-12-29  
 18 <150> PRIOR APPLICATION NUMBER: PCT/GB03/03130  
 19 <151> PRIOR FILING DATE: 2003-07-21  
 21 <150> PRIOR APPLICATION NUMBER: GB 0216903.5  
 22 <151> PRIOR FILING DATE: 2002-07-19  
 24 <160> NUMBER OF SEQ ID NOS: 30  
 26 <170> SOFTWARE: SeqWin99, version 1.02  
 28 <210> SEQ ID NO: 1  
 29 <211> LENGTH: 1236  
 30 <212> TYPE: DNA  
 31 <213> ORGANISM: Homo sapiens  
 33 <400> SEQUENCE: 1  
 34 atggccctat ggtccctgct ccattctcacc ttctctggggt tcagcattac cttgctgttg 60  
 35 gtccacgggc agggcttcca agggacagca gccatctggc catccctctt caacgtcaac 120  
 36 ttgtccaaga aggttcagga aagcatccag atcccgaaca atgggagtgc gccctgctc 180  
 37 gtggatgtgc ggggtgttgt ctccaacgtg tttaatgtgg acatcctgcg atacacaatg 240  
 38 tctccatgct tgetgcttag gctgtcctgg ctggacactc gcctggcctg gaacactagt 300  
 39 gcacacccgc ggcacgccat cacgctgccc tgggagtctc tctggacacc aaggctcacc 360  
 40 atcctggagg cgtcttgggt ggactggagg gaccagagcc cccaggctcg agtagaccag 420  
 41 gacggccacg tgaagctcaa cctggccctc gccacggaga ccaactgcaa ctttgagctc 480  
 42 ctccacttcc cccgggacca cagcaactgc agcctcagct tctacgctct cagcaacacg 540  
 43 gcgatggagt tagagttcca ggcccacgtg gtgaacgaga ttgtgagtgt caagagggaa 600  
 44 tacgtagttt atgatctgaa gacccaagtc ccaccccagc agctgggtgcc ctgcttccag 660  
 45 gtgacgctga ggctgaagaa cacggcgctc aagtcctatc tcgctctctt ggtgcctgca 720  
 46 gaggcactgc tgttggtgta cgtgtgcggg ggggttgcgc ccctccgggc cattgagcgc 780  
 47 ataggctaca aggtgacatt gctgctgagt tacctcgtcc tccactcctc cctgggtgcag 840  
 48 gccctgcccc gctcctcctc ctgcaaccca ctgctcattt actacttcac catcctgctg 900  
 49 ctgctgctct tctcagcac catagagact gtgctgctgg ctgggctgct ggcccggggc 960  
 50 aaccttgggg ccaagagcgg ccccagcccc gcccagagag gggaacagcg agagcacggc 1020  
 51 aacccagggc ctcatcctgc tgaagagccc tccagaggag taaaggggtc acagagaagc 1080  
 52 tggcctgaga ctgctgaccg catcttcttc ctctgtatg tgggtggggg gctgtgcacc 1140  
 53 caattcgtct ttgcaggaat ctggatgtgg gcagcgtgca agtctgacgc agcccttggg 1200  
 54 gaggctgcac cccatggcag gcggcctaga ctgtaa 1236

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56 <210> SEQ ID NO: 2
57 <211> LENGTH: 411
58 <212> TYPE: PRT
59 <213> ORGANISM: Homo sapiens
61 <400> SEQUENCE: 2
62 Met Ala Leu Trp Ser Leu Leu His Leu Thr Phe Leu Gly Phe Ser Ile
63 1 5 10 15
65 Thr Leu Leu Leu Val His Gly Gln Gly Phe Gln Gly Thr Ala Ala Ile
66 20 25 30
68 Trp Pro Ser Leu Phe Asn Val Asn Leu Ser Lys Lys Val Gln Glu Ser
69 35 40 45
71 Ile Gln Ile Pro Asn Asn Gly Ser Ala Pro Leu Leu Val Asp Val Arg
72 50 55 60
74 Val Phe Val Ser Asn Val Phe Asn Val Asp Ile Leu Arg Tyr Thr Met
75 65 70 75 80
77 Ser Ser Met Leu Leu Leu Arg Leu Ser Trp Leu Asp Thr Arg Leu Ala
78 85 90 95
80 Trp Asn Thr Ser Ala His Pro Arg His Ala Ile Thr Leu Pro Trp Glu
81 100 105 110
83 Ser Leu Trp Thr Pro Arg Leu Thr Ile Leu Glu Ala Leu Trp Val Asp
84 115 120 125
86 Trp Arg Asp Gln Ser Pro Gln Ala Arg Val Asp Gln Asp Gly His Val
87 130 135 140
89 Lys Leu Asn Leu Ala Leu Ala Thr Glu Thr Asn Cys Asn Phe Glu Leu
90 145 150 155 160
92 Leu His Phe Pro Arg Asp His Ser Asn Cys Ser Leu Ser Phe Tyr Ala
93 165 170 175
95 Leu Ser Asn Thr Ala Met Glu Leu Glu Phe Gln Ala His Val Val Asn
96 180 185 190
98 Glu Ile Val Ser Val Lys Arg Glu Tyr Val Val Tyr Asp Leu Lys Thr
99 195 200 205
101 Gln Val Pro Pro Gln Gln Leu Val Pro Cys Phe Gln Val Thr Leu Arg
102 210 215 220
104 Leu Lys Asn Thr Ala Leu Lys Ser Ile Ile Ala Leu Leu Val Pro Ala
105 225 230 235 240
107 Glu Ala Leu Leu Leu Ala Asp Val Cys Gly Gly Leu Leu Pro Leu Arg
108 245 250 255
110 Ala Ile Glu Arg Ile Gly Tyr Lys Val Thr Leu Leu Leu Ser Tyr Leu
111 260 265 270
113 Val Leu His Ser Ser Leu Val Gln Ala Leu Pro Ser Ser Ser Ser Cys
114 275 280 285
116 Asn Pro Leu Leu Ile Tyr Tyr Phe Thr Ile Leu Leu Leu Leu Phe
117 290 295 300
119 Leu Ser Thr Ile Glu Thr Val Leu Leu Ala Gly Leu Leu Ala Arg Gly
120 305 310 315 320
122 Asn Leu Gly Ala Lys Ser Gly Pro Ser Pro Ala Pro Arg Gly Glu Gln
123 325 330 335
125 Arg Glu His Gly Asn Pro Gly Pro His Pro Ala Glu Glu Pro Ser Arg
126 340 345 350

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128 Gly Val Lys Gly Ser Gln Arg Ser Trp Pro Glu Thr Ala Asp Arg Ile
129          355          360          365
131 Phe Phe Leu Val Tyr Val Val Gly Val Leu Cys Thr Gln Phe Val Phe
132          370          375          380
134 Ala Gly Ile Trp Met Trp Ala Ala Cys Lys Ser Asp Ala Ala Pro Gly
135 385          390          395          400
137 Glu Ala Ala Pro His Gly Arg Arg Pro Arg Leu
138          405          410
140 <210> SEQ ID NO: 3
141 <211> LENGTH: 94
142 <212> TYPE: DNA
143 <213> ORGANISM: Homo sapiens
145 <400> SEQUENCE: 3
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147 gtccacgggc agggcttcca agggacagca gccca 94
149 <210> SEQ ID NO: 4
150 <211> LENGTH: 32
151 <212> TYPE: PRT
152 <213> ORGANISM: Homo sapiens
154 <400> SEQUENCE: 4
155 Met Ala Leu Trp Ser Leu Leu His Leu Thr Phe Leu Gly Phe Ser Ile
156 1          5          10          15
158 Thr Leu Leu Leu Val His Gly Gln Gly Phe Gln Gly Thr Ala Ala Ile
159          20          25          30
162 <210> SEQ ID NO: 5
163 <211> LENGTH: 125
164 <212> TYPE: DNA
165 <213> ORGANISM: Homo sapiens
167 <400> SEQUENCE: 5
168 tctggccatc cctcttcaac gtcaacttgt ccaagaaggt tcaggaaagc atccagatcc 60
169 cgaacaatgg gagtgcgccc ctgctcgtgg atgtgcgggt gtttgtctcc aacgtgttta 120
170 atgtg 125
172 <210> SEQ ID NO: 6
173 <211> LENGTH: 41
174 <212> TYPE: PRT
175 <213> ORGANISM: Homo sapiens
177 <400> SEQUENCE: 6
178 Trp Pro Ser Leu Phe Asn Val Asn Leu Ser Lys Lys Val Gln Glu Ser
179 1          5          10          15
181 Ile Gln Ile Pro Asn Asn Gly Ser Ala Pro Leu Leu Val Asp Val Arg
182          20          25          30
184 Val Phe Val Ser Asn Val Phe Asn Val
185          35          40
187 <210> SEQ ID NO: 7
188 <211> LENGTH: 45
189 <212> TYPE: DNA
190 <213> ORGANISM: Homo sapiens
192 <400> SEQUENCE: 7
193 gacatcctgc gatacacaat gtcctccatg ctgctgctta ggctg 45

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195 <210> SEQ ID NO: 8
196 <211> LENGTH: 15
197 <212> TYPE: PRT
198 <213> ORGANISM: Homo sapiens
200 <400> SEQUENCE: 8
201 Asp Ile Leu Arg Tyr Thr Met Ser Ser Met Leu Leu Leu Arg Leu
202 1           5           10           15
204 <210> SEQ ID NO: 9
205 <211> LENGTH: 107
206 <212> TYPE: DNA
207 <213> ORGANISM: Homo sapiens
209 <400> SEQUENCE: 9
210 tcctggctgg acactgcct ggccctggaac actagtgcac acccgcgcca cgccatcacg 60
211 ctgccctggg agtctctctg gacaccaagg ctcaccatcc tggaggc 107
213 <210> SEQ ID NO: 10
214 <211> LENGTH: 36
215 <212> TYPE: PRT
216 <213> ORGANISM: Homo sapiens
218 <400> SEQUENCE: 10
219 Ser Trp Leu Asp Thr Arg Leu Ala Trp Asn Thr Ser Ala His Pro Arg
220 1           5           10           15
222 His Ala Ile Thr Leu Pro Trp Glu Ser Leu Trp Thr Pro Arg Leu Thr
223           20           25           30
225 Ile Leu Glu Ala
226           35
228 <210> SEQ ID NO: 11
229 <211> LENGTH: 170
230 <212> TYPE: DNA
231 <213> ORGANISM: Homo sapiens
233 <400> SEQUENCE: 11
234 gctctgggtg gactggagg accagagccc ccaggctcga gtagaccagg acggccacgt 60
235 gaagctcaac ctggccctcg ccacggagac caactgcaac tttgagctcc tccacttccc 120
236 ccgggaccac agcaactgca gcctcagctt ctacgctctc agcaacacgg 170
238 <210> SEQ ID NO: 12
239 <211> LENGTH: 57
240 <212> TYPE: PRT
241 <213> ORGANISM: Homo sapiens
243 <400> SEQUENCE: 12
244 Leu Trp Val Asp Trp Arg Asp Gln Ser Pro Gln Ala Arg Val Asp Gln
245 1           5           10           15
247 Asp Gly His Val Lys Leu Asn Leu Ala Leu Ala Thr Glu Thr Asn Cys
248           20           25           30
250 Asn Phe Glu Leu Leu His Phe Pro Arg Asp His Ser Asn Cys Ser Leu
251           35           40           45
253 Ser Phe Tyr Ala Leu Ser Asn Thr Ala
254           50           55
256 <210> SEQ ID NO: 13
257 <211> LENGTH: 125
258 <212> TYPE: DNA

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259 <213> ORGANISM: Homo sapiens
261 <400> SEQUENCE: 13
262 cgatggagtt agagttccag gcccacgtgg tgaacgagat tgtgagtgtc aagaggggaat   60
263 acgtagttta tgatctgaag acccaagtcc caccacagca gctgggtgcc tgcttccagg   120
264 tgacg                                     125
266 <210> SEQ ID NO: 14
267 <211> LENGTH: 41
268 <212> TYPE: PRT
269 <213> ORGANISM: Homo sapiens
271 <400> SEQUENCE: 14
272 Met Glu Leu Glu Phe Gln Ala His Val Val Asn Glu Ile Val Ser Val
273 1          5          10          15
275 Lys Arg Glu Tyr Val Val Tyr Asp Leu Lys Thr Gln Val Pro Pro Gln
276          20          25          30
278 Gln Leu Val Pro Cys Phe Gln Val Thr
279          35          40
281 <210> SEQ ID NO: 15
282 <211> LENGTH: 211
283 <212> TYPE: DNA
284 <213> ORGANISM: Homo sapiens
286 <400> SEQUENCE: 15
287 ctgaggctga agaacacggc gctcaagtcc atcatcgctc tcttggtgcc tgcagaggca   60
288 ctgctgttgg ctgacgtgtg cgggggggttg ctgcccctcc gggccattga gcgcataggc   120
289 tacaaggtga cattgctgct gagttacctc gtccctcact cctccctggg gcaggccctg   180
290 cccagctcct cctcctgcaa cccactgctc a                                     211
292 <210> SEQ ID NO: 16
293 <211> LENGTH: 71
294 <212> TYPE: PRT
295 <213> ORGANISM: Homo sapiens
297 <400> SEQUENCE: 16
298 Leu Arg Leu Lys Asn Thr Ala Leu Lys Ser Ile Ile Ala Leu Leu Val
299 1          5          10          15
301 Pro Ala Glu Ala Leu Leu Leu Ala Asp Val Cys Gly Gly Leu Leu Pro
302          20          25          30
304 Leu Arg Ala Ile Glu Arg Ile Gly Tyr Lys Val Thr Leu Leu Leu Ser
305          35          40          45
307 Tyr Leu Val Leu His Ser Ser Leu Val Gln Ala Leu Pro Ser Ser Ser
308          50          55          60
310 Ser Cys Asn Pro Leu Leu Ile
311 65          70
313 <210> SEQ ID NO: 17
314 <211> LENGTH: 168
315 <212> TYPE: DNA
316 <213> ORGANISM: Homo sapiens
318 <400> SEQUENCE: 17
319 ttactactt caccatcctg ctgctgctgc tcttctcag caccatagag actgtgctgc   60
320 tggctgggct gctggcccgg ggcaaccttg gggccaagag cggccccagc ccagccccga   120
321 gaggggaaca gcgagagcac ggcaaccacg ggctcatcc tgctgaag               168
323 <210> SEQ ID NO: 18

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**VERIFICATION SUMMARY**

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Input Set : A:\00360899.TXT

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L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date